

CLAIMS

1. Electronic component that can be operated by means of an AC voltage and which comprises:

5 at least one input,  
at least one output and  
a pair of functionally identical electronic sub-components,

10 in which the at least one input of the electronic component is connected to a respective input of the two functionally identical electronic sub-components,

15 in which the at least one output of the electronic component is connected to a respective output of the two functionally identical electronic sub-components, and

20 in which the electronic component is configured in such a way that at the at least one output only one output signal of a first sub-component of the pair of functionally identical electronic sub-components can be picked up during a first half-wave of an AC voltage, whereas only one output signal of the second sub-component of the pair of functionally identical electronic sub-components can be picked up during the 25 second half-wave of the AC voltage.

2. Electronic component according to Claim 1, in which the electronic component comprises a plurality of pairs of functionally identical electronic sub-components.

30 3. Electronic component according to Claim 1 or 2, in which at least one pair of functionally identical electronic sub-components comprises logic-gates, inverters and/or flip-flops.

35 4. Electronic component according to one of the Claims 1 to 3, in which the electronic component comprises a coil.

5. Electronic component according to one of the Claims 1 to 4, comprising a voltage limiter, which limits the AC voltage lying across an electronic sub-component of the pair of functionally identical electronic sub-components.
10. Electronic component according to one of the Claims 1 to 5, in which one of the electronic sub-components of a pair of functionally identical electronic sub-components comprises a switch.
15. ID tag comprising an electronic component according to one of the Claims 1 to 6.
20. ID tag according to Claim 7, in which the ID tag comprises a memory for storing information.
25. ID tag according to Claim 7 or 8, in which the ID tag comprises an encoder for coding information.
30. ID tag according to Claim 9, in which the encoder is configured such that it can be used for time-coding and/or pulse-coding.
11. Arrangement comprising an ID tag according to one of the Claims 7 to 10 and a read device, the read device and the ID tag being configured such that they can communicate with each other without contact.